

$$w_1 = c_2 x[n] - k_2 w_5$$

$$w_3 = w_2 z^{-1}$$

$$y[n] = x[n] k_2 + c_2 w_5$$

$$f[n] = \frac{1}{2} [x[n] + y[n]] + \frac{G}{2} [x[n] - y[n]]$$

$$w_5 = w_4 z^{-1}$$

$$w_2 = c_1 w_1 - k_1 w_3$$

$$w_4 = k_1 w_1 + c_1 w_3$$

Figure 1

Doc

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SECRET

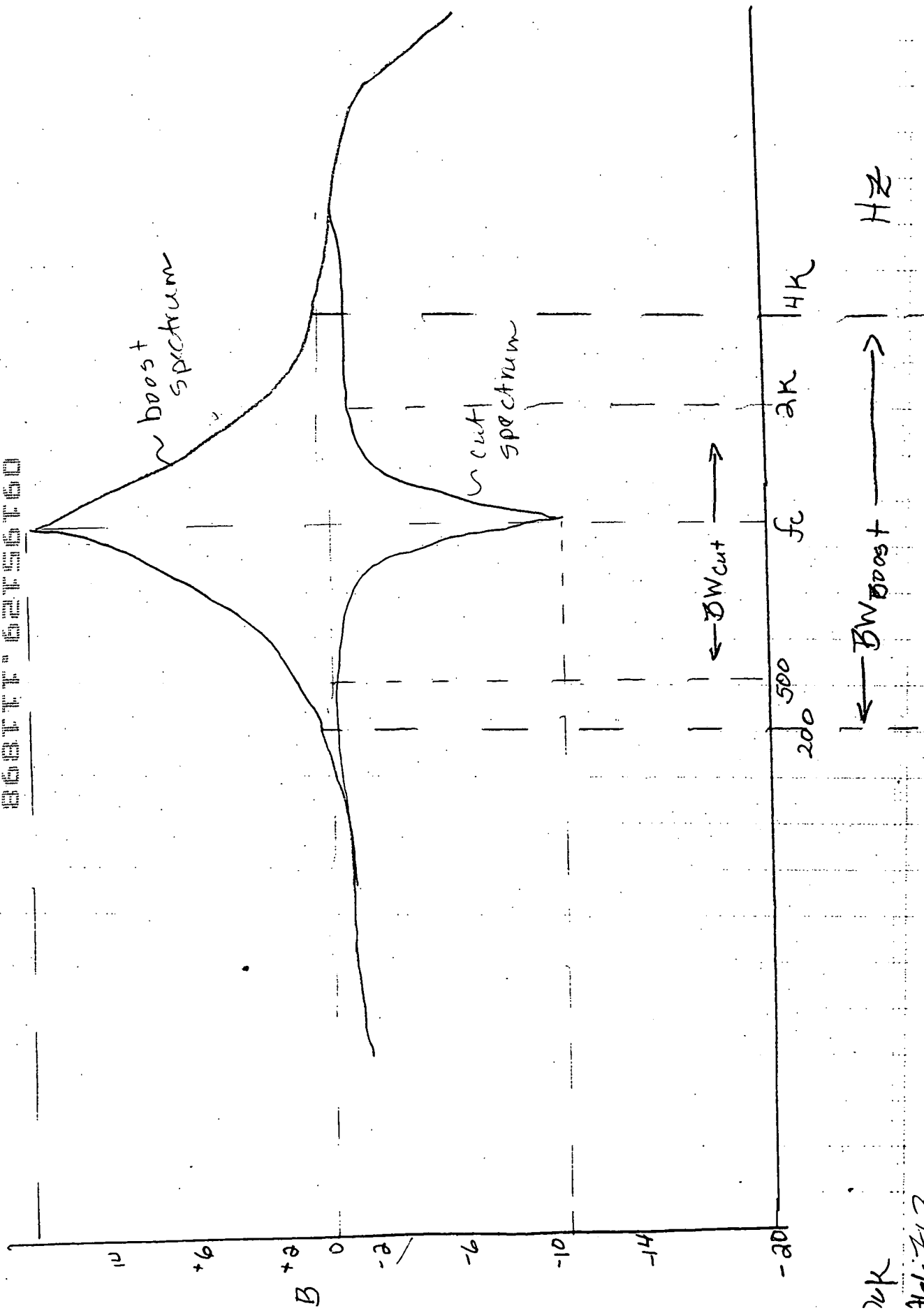


Figure 2 (Prior Art)

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2/1/98

00155160 "625155160"

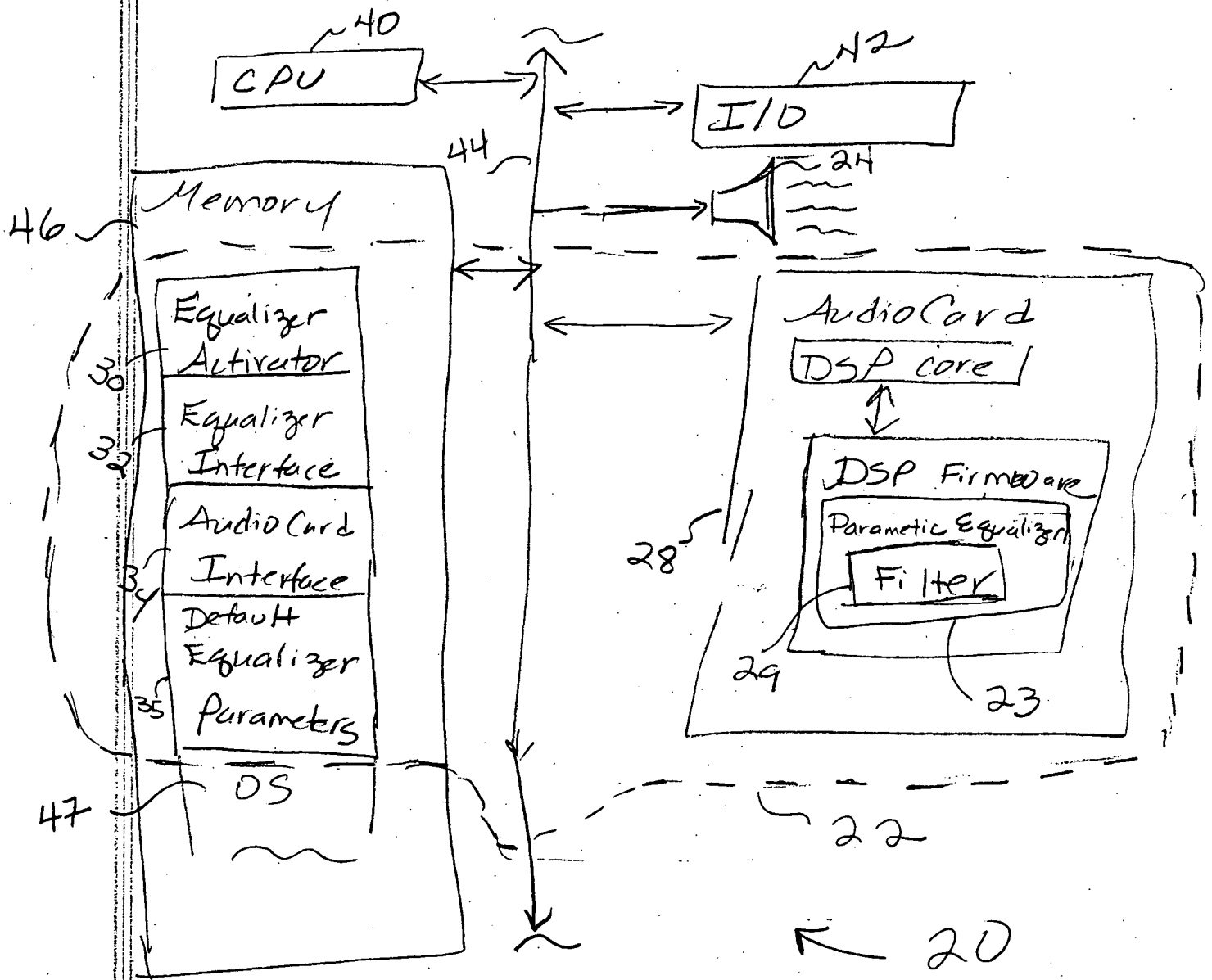
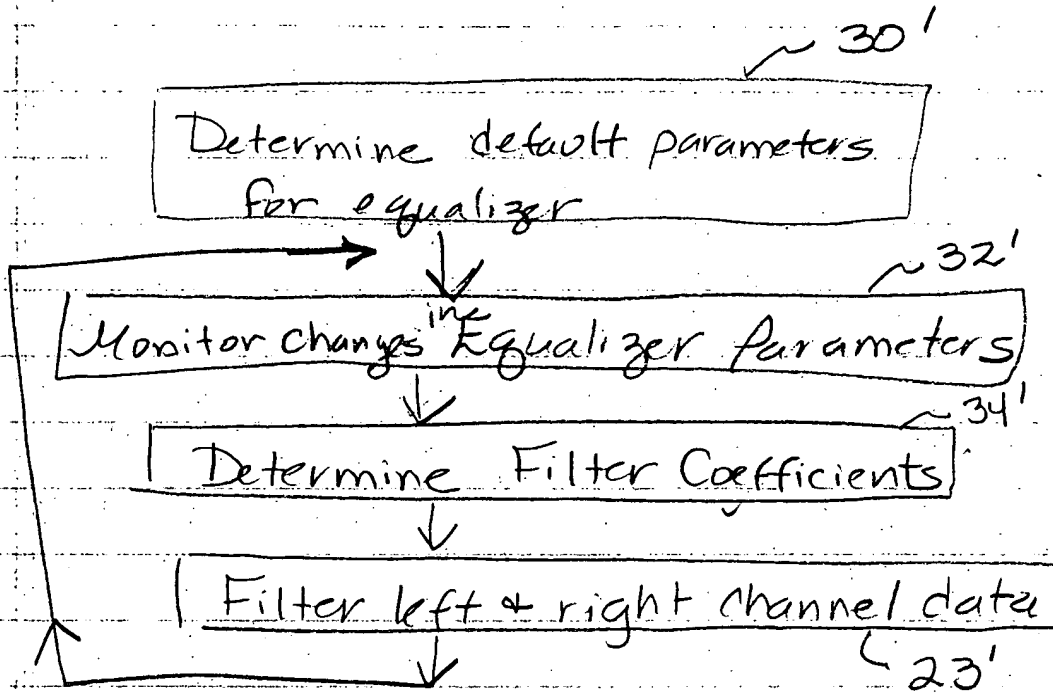


Figure 3

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PC: Equalizer
Activator
30

PC: Equalizer
Interface
32

PC: AudioCard
Interface
34

AudioCard:
Parametric
Equalizer
23

Figure 4

00195129-6215160

DAK

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00/15/98

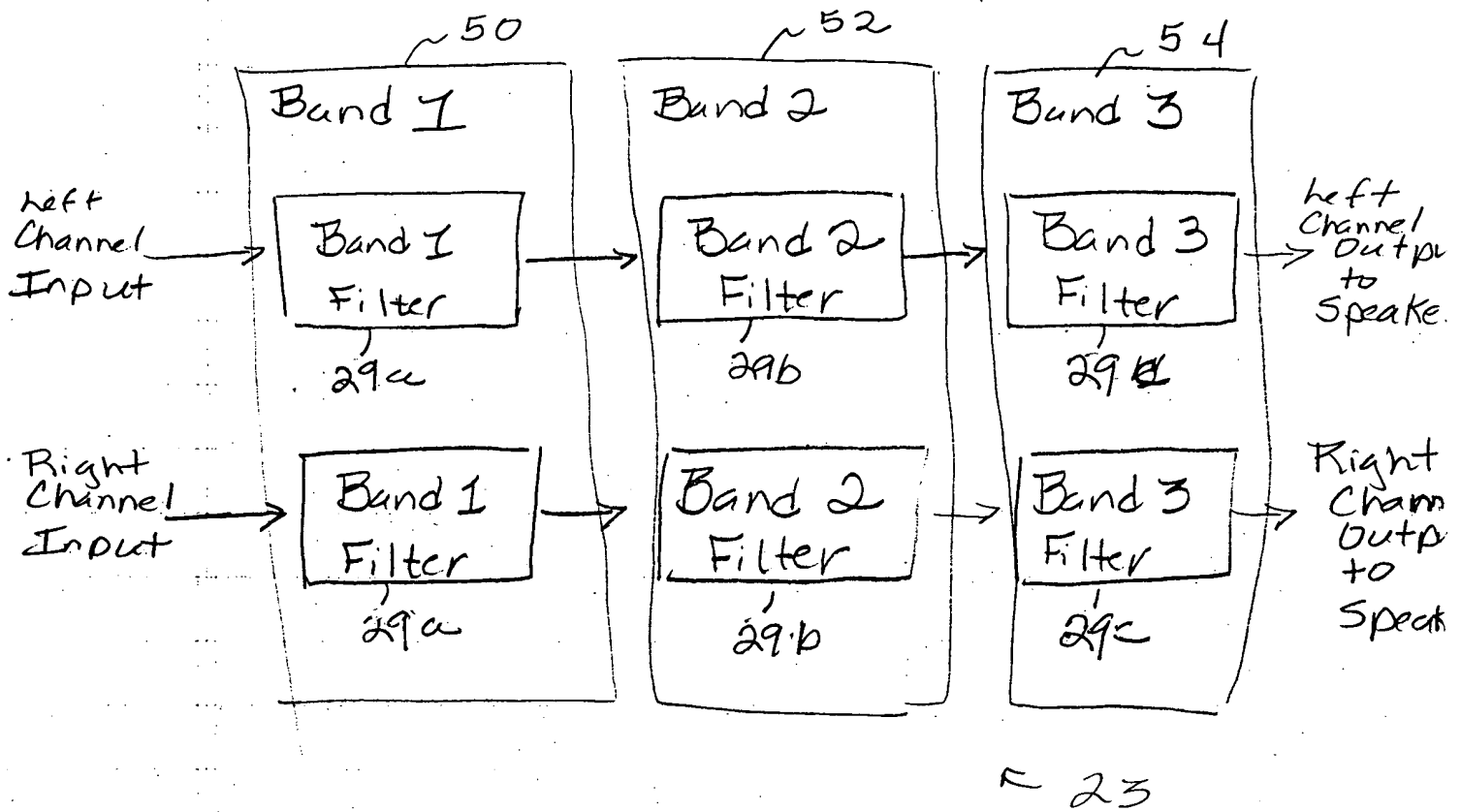


Figure 5

00195129-11898

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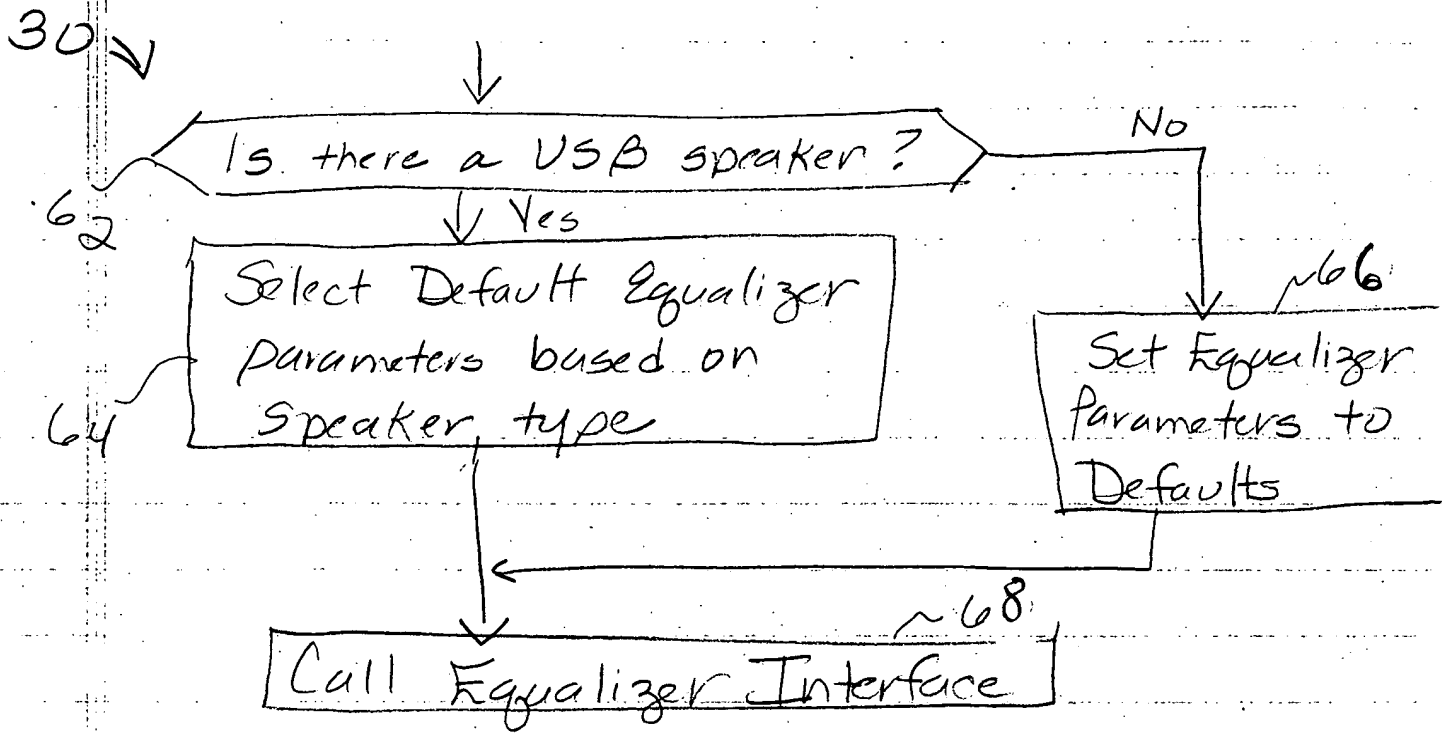


Figure 6

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32
↘

↓
Present Equalizer User Interface ~ 70
w/ Default Parameters

↓
Monitor Equalizer User Interface
for modification of Parameters ~ 72

↓
Insure Sound Quality ~ 74

↓
Call Audio Card Interface ~ 76

Figure 17

0015120

OK

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0015120

0015130-11898
0015130-11898

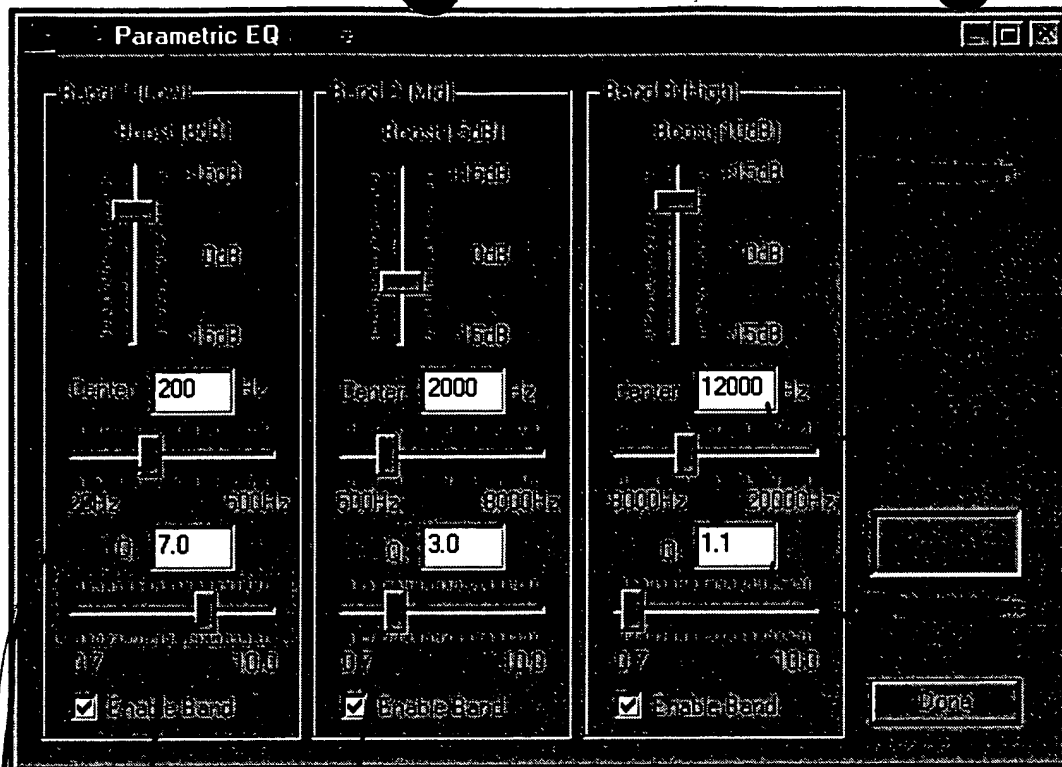


Figure 8 ⁸²

Ok
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74 ↓



Determine whether combined cut/boost of First and Second Band too great using relationship ^{for} adjacent bands ~90 (7)



Determine whether combined cut/boost of Second and Third Band too great using relationship for adjacent bands ~92 (8)



Determine whether combined cut/boost of First and Third Band too great using relationship for nonadjacent bands ~94



If any of the combined cut/boosts too great, request user alter ^{effected} parameters of the equalizer bands ~96



Figure 9

0212

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09195100 "1118998

AudioCard
Interface

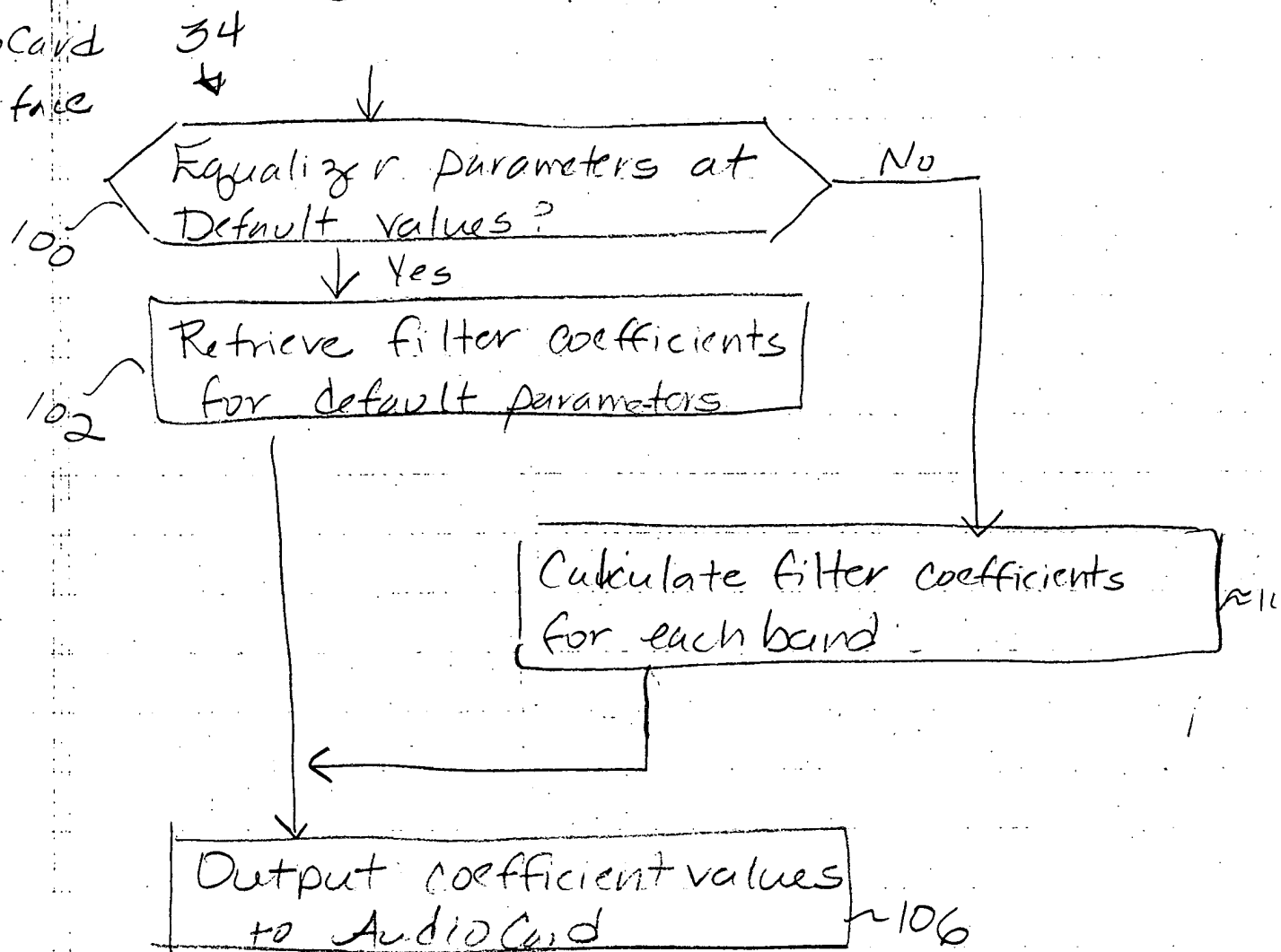
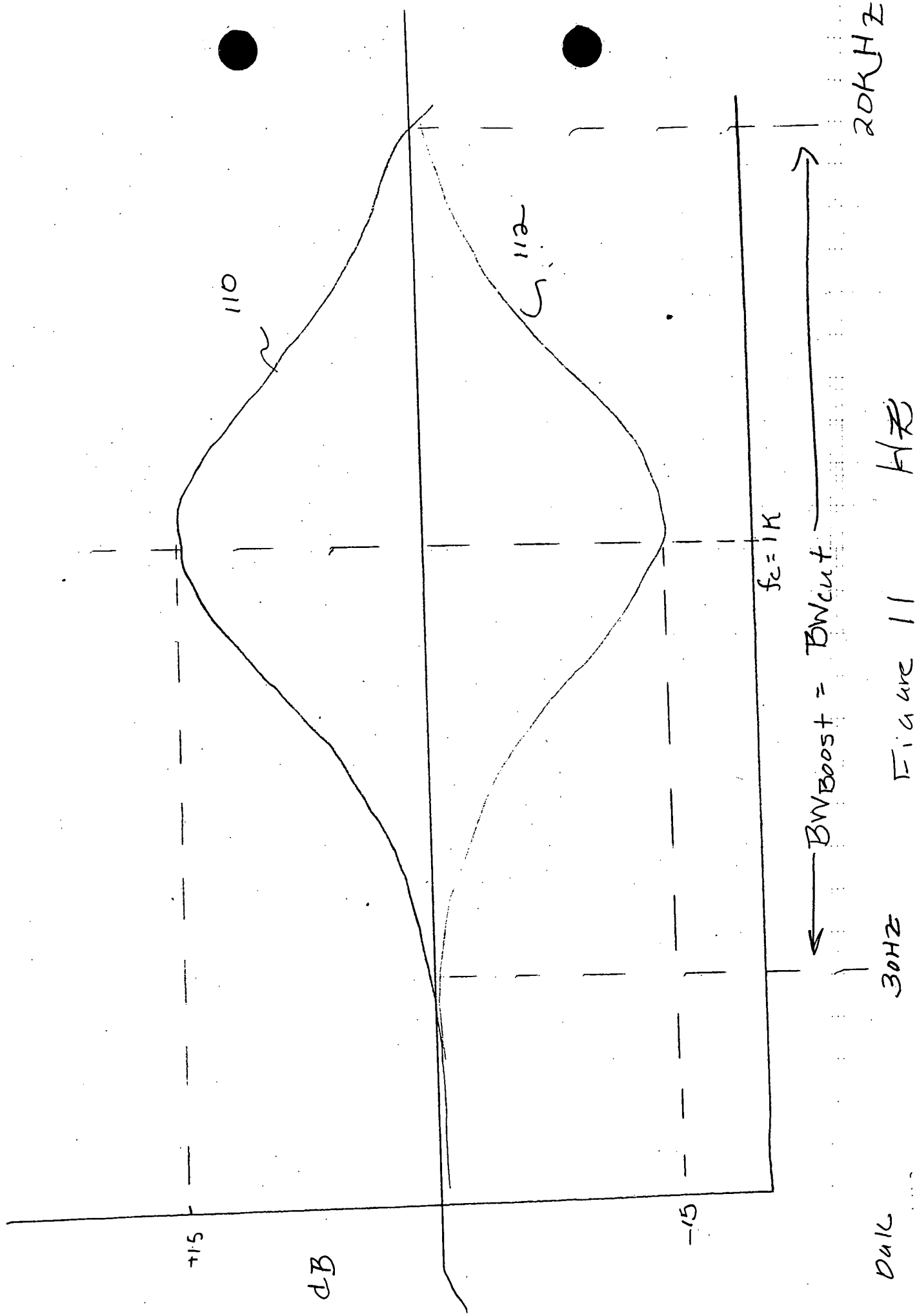


Figure 10

Dak

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Duk

30Hz

Figure 11

Hz

20KHz

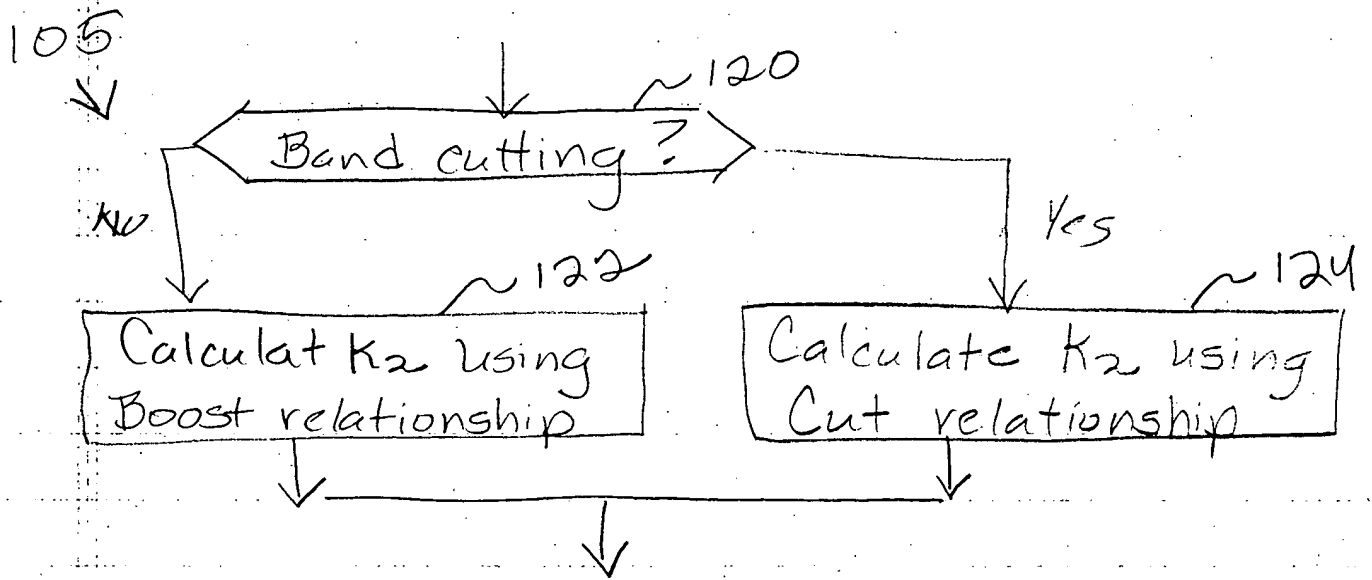


Figure 12

0915150

QAK

A66700

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